



Project Implementation

FTA Construction Roundtable

April 28, 2008

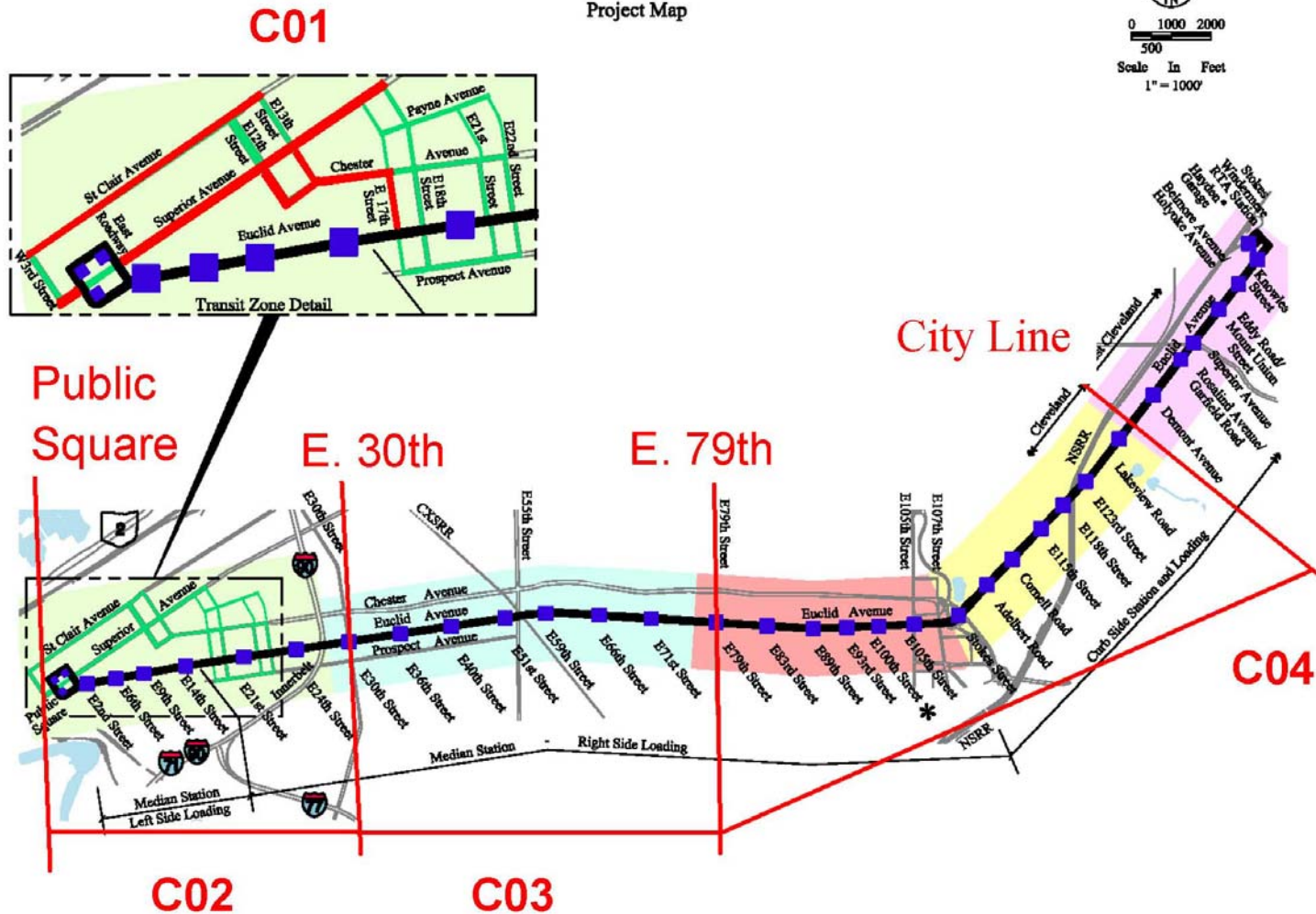
Agenda

- **Project Overview**
- **Current Project Status**
- **Integrated Public Art**
- **Safety**
- **Challenges/Contributors to Success**
- **Project Tour**

Construction Contracts

Greater Cleveland Regional Transit Authority (GCRTA)
Euclid Corridor Transportation Project (BRT)

Project Map



Contract Units

Roadway Packages

- **C01** – Transit Zone North of Euclid Ave.
- **C02** – E. Roadway to Innerbelt, Public Square, and E. 17th St. Ext.
- **C03** – Euclid Avenue – Innerbelt to E.79th St.
- **C04** – Euclid Avenue – E. 79th to City Line

System Wide Packages

- **C05A** – Stations
- **C05B** – Traffic Signals, Communications, Lighting

Maintenance Facilities

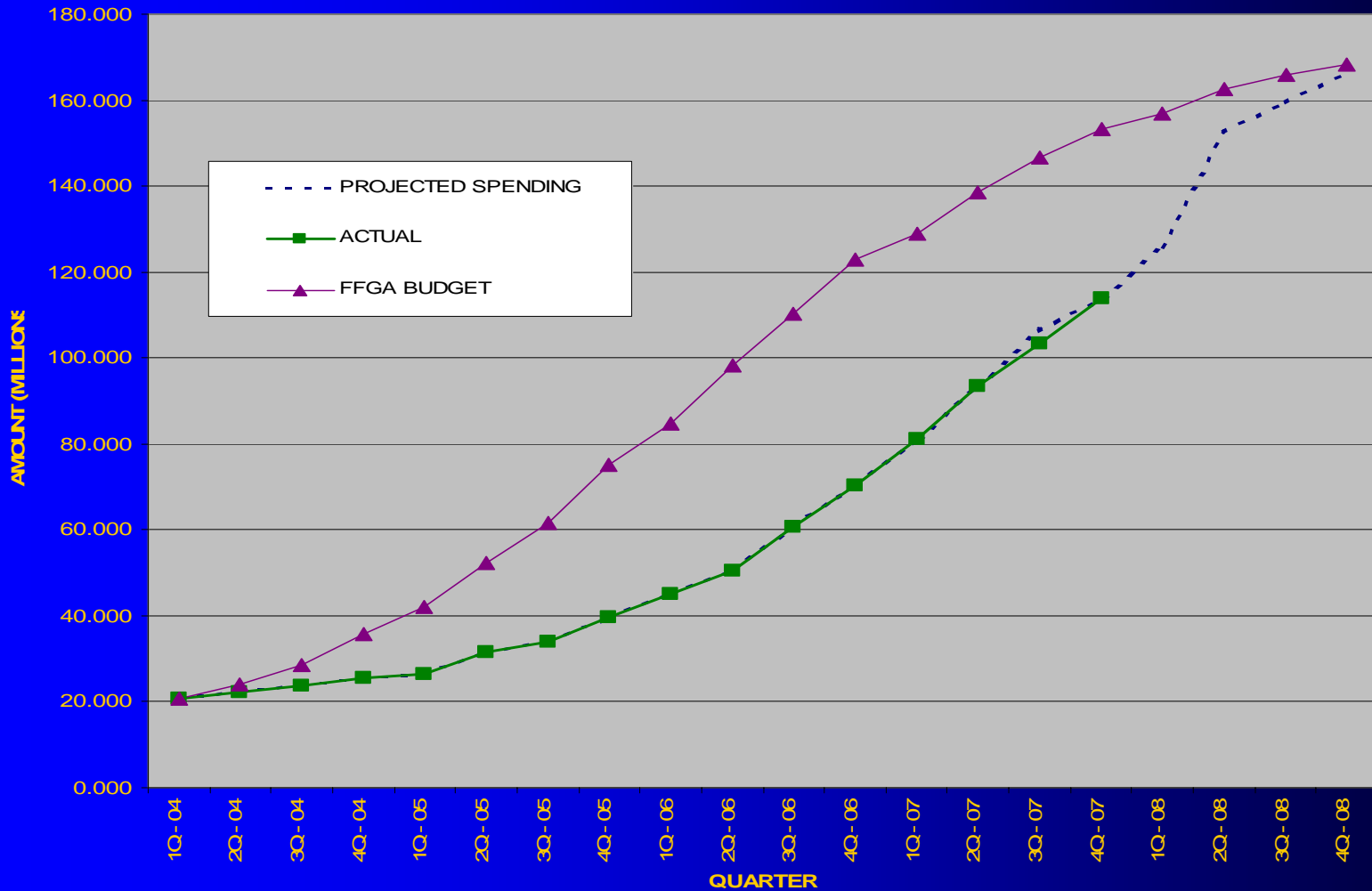
- **C06** – Hayden and Central Bus Modifications

Budget

➤	Revised FFGA budget	
➤	Vehicles	- \$ 21.10 M
➤	Construction	- \$ 86.59 M
➤	Land Acquisition	- \$ 13.50 M
➤	Other Capital Costs	- \$ 46.02 M
➤	Public Art	- \$ 0.70 M
➤	Contingency	- <u>\$ 0.49 M</u>
➤	Total	- \$168.40 M

Budget/Funding/Cash Flow

ECTP COST TO DATE VS BUDGET



Key project dates

- **C-02 completion August 17, 2008**
- **C-03 completion May 13, 2008**
- **C-04 completion August 16, 2008**
- **C-05A completion August 25, 2008**
- **C-05B completion September 22, 2008**
- **AIS October 25, 2008**
- **Revenue Operations December 31, 2008**

Risk points in schedule

- **CPP Work C02 and C04**
- **C02 Communications Duct & Splice Boxes**
- **C-05B 2008 Stacking of signal, lighting & communications activation work**

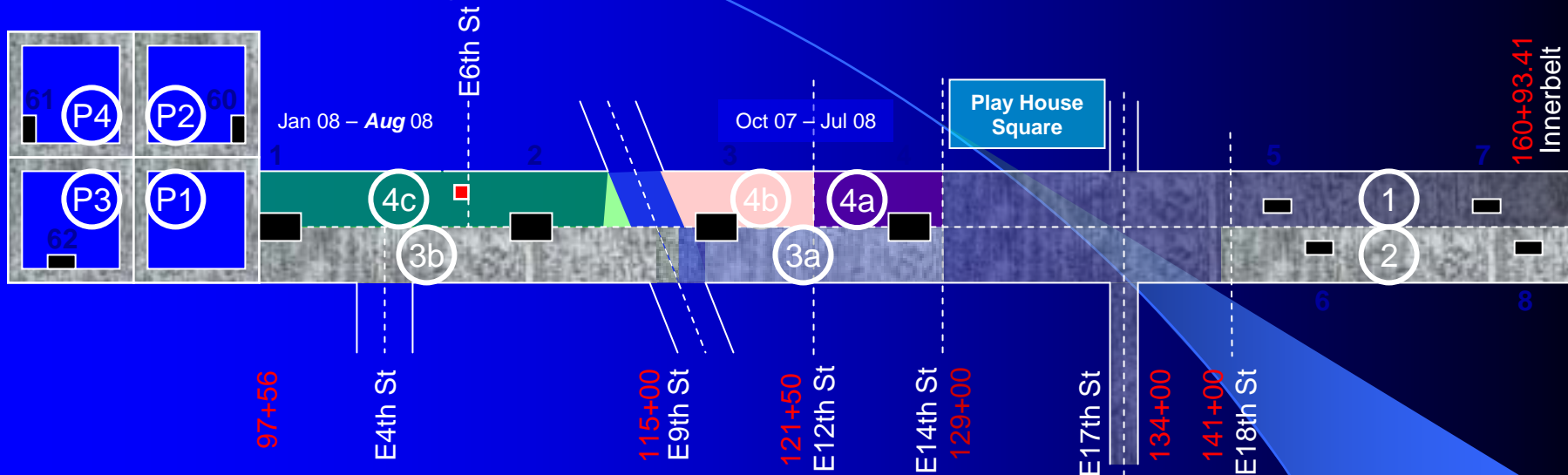
Recent Accomplishments

- On November 15, 2007 Public Square was completed
- On November 26, 2007 began operating in Exclusive Transit Lanes between East 17th and East 55th
- December 18, 2007 C-03 contract reached Substantial Completion on schedule
- January 15, 2008 began operating on new Lower Euclid south side pavement and started Clinic Area construction
- On April 27, 2008 began operating in Exclusive Transit Lanes between E. 55th and E. 85th

38-C02 E Roadway to Innerbelt and Public Square

NTP:22May06

Substantial Completion: **17Aug08**



Bus Station Foundations	
1	Jul 08
2	Jul 08
3	May 08
4	Apr 08

Legend	
	Bus Stations
	Roadway Paved

Early Open Segment

- **Operational on November 26, 2007**
- **Communication plan prior to opening**
- **Safety flyers distributed through corridor**
- **Transit Police enforcement of transit lanes and pedestrian movements**
- **Currently operating safely**
- **Travel times significantly reduced**

East 17th to East 55th Open



Recent Progress

- **C - 02**
 - **Public Square (re)completed**
 - **South side Public Square to East 14th pavement completed**
 - **NE Quadrant at East Ninth underway**
 - **East 9th to East 14th north side pavement being placed**
 - **Public Square to E. 9th utilities and grading underway**

C-02 Public Sq. to Innerbelt



C-02 Public Sq. to Innerbelt



C-02 Public Sq. to Innerbelt



C-02 Public Sq. to Innerbelt



C-02 Public Sq. to Innerbelt



C-02 Public Sq. to Innerbelt



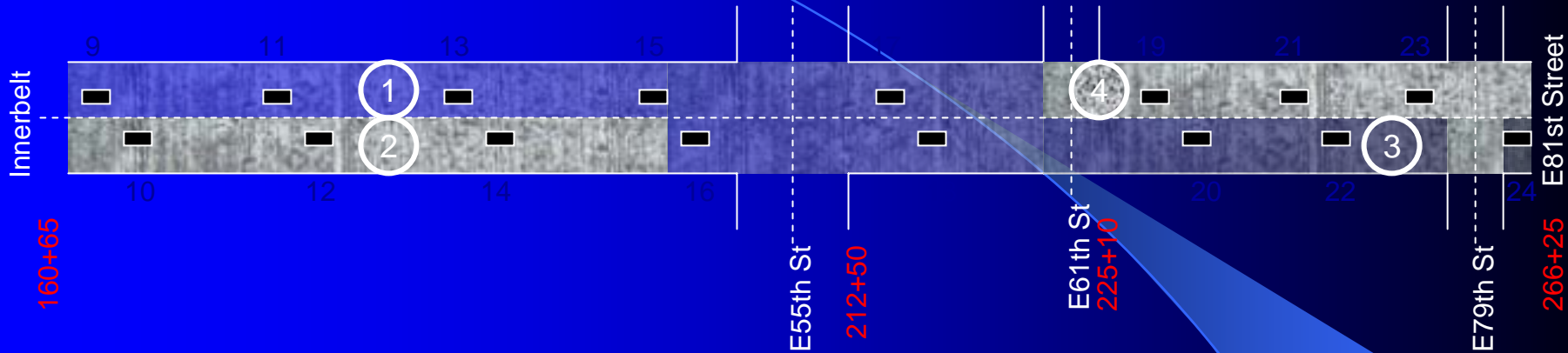
C-02 Public Sq. to Innerbelt



C03 Sequences – Innerbelt to E79th Street

NTP:06Mar06

Substantial Completion:23Dec07



Legend

- Bus Stations
- Roadway Paved

Recent Progress

- **C - 03**
- **Substantial Completion of entire project achieved on schedule December 18, 2007**
- **Currently working on punch-list items and project close-out**

C-03 Innerbelt to East 79th



C-03 Innerbelt to East 79th



C-03 Innerbelt to East 79th



C-03 Innerbelt to East 79th



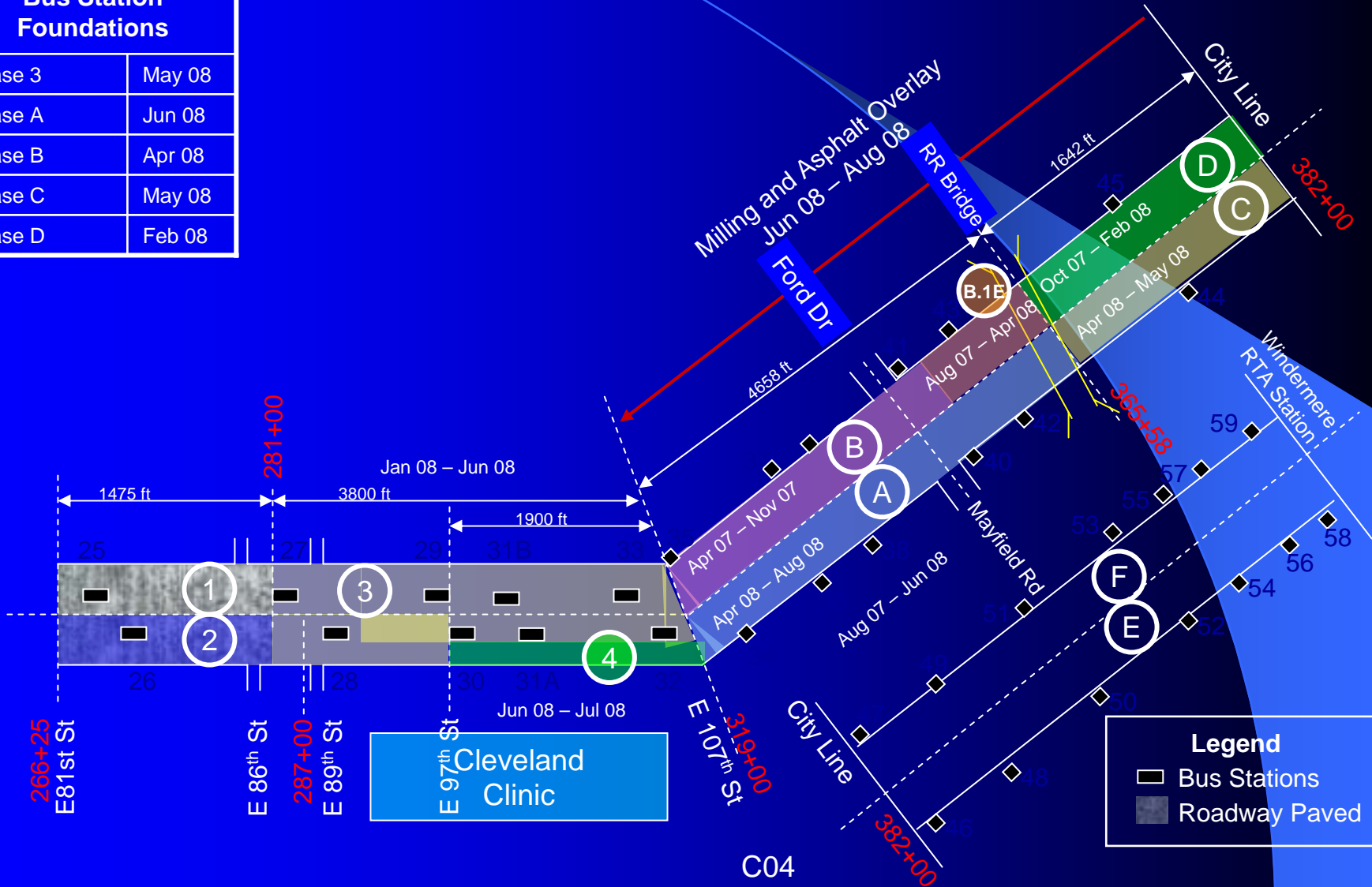
38-C04 E79th Street to City Line

NTP:08Aug06

Substantial Completion:16Aug08



Bus Station Foundations	
Phase 3	May 08
Phase A	Jun 08
Phase B	Apr 08
Phase C	May 08
Phase D	Feb 08



Legend	
	Bus Stations
	Roadway Paved

Recent Progress

- **C – 04**
- **Pavement, sidewalks, medians and platforms completed East 81st to East 86th**
- **Utility relocation and drainage work completed East 105th to East 107th**
- **North side sidewalks, platforms and curbs 90% completed East 107th to City Line**
- **Drainage and utility work starting on south side East 107th to Mayfield**

C-04 East 79th to City Limit



C-04 East 79th to City Limit



C-04 East 79th to City Limit



C-04 East 79th to City Limit



C-04 East 79th to City Limit



C-04 East 79th to City Limit



Recent Progress

- **C – 05A**
 - **2 Public Square stations have been completed**
 - **Midtown station fabrication has continued and 22 stations completed**
 - **Curbside station fabrication has continued and 14 stations installed, 10 completed**

C-05A Stations



C-05A Stations



C-05A Stations



C-05A Stations



C-05A Stations



Recent Progress

- **C – 05B**
 - **Wire, light poles and fixtures have been delivered to site and continue being installed by ECTP/CPP**
 - **Installing traffic signal poles and mast arms and traffic signal controllers**
 - **Installing traffic control signage**
 - **Integrated art pieces being installed**

C-05B Signals, Lighting and Communications



C-05B Signals, Lighting and Communications



C-05B Signals, Lighting and Communications



C-05B Signals, Lighting and Communications



C-05B Signals, Lighting and Communications



C-05B Signals, Lighting and Communications



Construction Safety

- **Recordable Case Rates**
 - **5 incidents in 330,995 exposure hours**
 - **3 in C-03, 1 in C-04, and 1 in C-06**
 - **Overall ECTP rate is 3.02**
 - **Bureau of Labor Statistic rate is 6.4**
 - **Const. Industry Institute rate is 0.87**

Construction Safety

- **Days Away from Work Case Rates**
 - **3 incidents in 330,995 exposure hours**
 - **3 in C-03**
 - **Overall ECTP rate is 1.8**
 - **Bureau of Labor Statistic rate is 2.4**
 - **Const. Industry Institute rate is 0.35**

Construction Safety

Safety items brought to contractors immediate attention include:

- **MOT elements not properly maintained**
- **Trench/excavation safety**
- **Workers without Personal Protective Equipment**

Construction Safety

Proactive safety measures to protect public and workers implemented by contractors and observed include:

- **Intensive MOT effort in new zones**
- **Good housekeeping of work area**
- **Removal of MOT and material from open segment**

Integrated Public Art

- **Granite Hands**
- **Garbage Font**
- **Bridge Truss Crosswalks**
- **“Removable” curb**

Granite Hand



"Garbage Font"



Bridge Truss Crosswalk



“Removable” curb



Challenges

- **City Public Power Utility (CPP)**
- **Cleveland Clinic (CCF)**
- **City Storm & Sanitary Sewer Utility**

Contributors to Success

- **Project Team**

 - GCRTA/ODOT/consultants**

 - Contractor project manager**

- **Mother Nature**

 - Sand (glacial lake beach)**

 - Weather (climate change benefit?)**



Project Implementation

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Project Safety

- **Personal protective equipment**
- **Watch for traffic**
- **Watch for equipment**
- **Watch footing**
- **Respect fences, barricades & signage**